

## Abstract

A device and a method for the production of nanotubes, fullerene and their derivatives are disclosed.

In an environment where an inert gas flow is present at a atmospheric  
5 pressure or at a lower pressure respect to atmospheric, a high  
frequency electromagnetic field is generated, then, a substantially pure  
or doped graphite element is subjected to this electromagnetic field at  
one end and it is heated until to vaporization and simultaneously  
formation and persistence of a plasma happen around and afterward  
10 the vaporization zone of the same graphite element.

This graphite element continues its advancement inside the  
electromagnetic field and the material that has been vaporized with the  
advancement is re-established; a second high frequency  
electromagnetic field afterward the first is present; this electromagnetic  
15 field generates another plasma.

So that a large amount of nanotubes, fullerene and their derivatives is  
simply produced with high yield.